

Notice of Allowability

Application No.

09/664,948

Examiner

Jeffrey C. Pwu

Applicant(s)

BARTH, RAINER

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/20/06 Amendment & 12/4/06 Interview.
2. ☒ The allowed claim(s) is/are 1-7,9,11,13 and 15.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date attached.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


JEFFREY PWU
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michelle Carniaux on December 5, 2006.

2. The application has been amended as follows:

In the claims:

1. (Currently Amended) An industrial controller for at least one of a machine tool, a robot and a production machine, comprising:

a converter which ~~associates~~ links predefined operating states, of the at least one of the machine tool, the robot and the production machine, on an individual operating-state basis to respective at least one of messages and alarms so that, if one of the predefined operating states is present, a notification about which of the predefined operating states is present is sent to a predefined distribution group, the notification including at least one of an SMS message and an e-mail; and

a table which ~~associates~~ links each of the predefined operating states with:

- i) a respective distribution group to whom the notification is to be sent, and
- ii) information to be included in the notification,

wherein after one of the predefined operating states is detected, the respective at least one of message and alarm ~~associated~~ linked with the one of the predefined operating states is sent via the notification to the respective distribution group ~~associated~~ linked with the detected

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predefined operating state, the respective at least one of message and alarm including the information ~~associated~~ linked with the detected predefined operating state, and

wherein the table ~~associates~~ links at least two of the predefined operating states with a different respective distribution group.

2. (Original) The controller according to claim 1, wherein the e-mail has a file attached to it.
3. (Previously Presented) The controller according to claim 2, wherein the file is a trace file, the trace file including an operating sequence preceding the respective at least one of messages and alarms.
4. (Currently Amended) The controller according to claim 1, further comprising:
an operating keyboard to effect the ~~association~~ linking by editing.
5. (Previously Presented) The controller according to claim 1, wherein the converter is configured to initiate a bit poll, the bit poll for polling at least one system component for operation state information.
6. (Previously Presented) The controller according to claim 1, wherein the notification about the one of the predefined operating states is sent to the predefined distribution group when the one of the predefined operating states arises.
7. (Previously Presented) The controller according to claim 1, wherein each respective distribution group includes a plurality of members selected from at least one of a person and a site.
8. (Canceled)
9. (Currently Amended) An industrial controller for at least one of a machine tool, a robot and a production machine, comprising:
a converter which ~~associates~~ links predefined operating states of the at least one of the machine tool, the robot and the production machine, on an individual operating-state basis to respective at least one of messages and alarms;

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a table which ~~associates~~ links each of the predefined operating states with:

- i) a respective distribution group to whom a notification is to be sent, the notification including at least one of an SMS message and an e-mail
- ii) information to be included in the notification; and

a transmitter configured to send the at least one of message and alarm ~~associated~~ linked with one of the predefined operating states after the one of the predefined operating states is detected, the at least one of message and alarm being sent via the notification to the respective distribution group ~~associated~~ linked with the detected predefined operating state, the respective at least one of message and alarm including the information ~~associated~~ linked with the detected predefined operating state,

wherein the table ~~associates~~ links at least two of the predefined operating states with a different respective distribution group.

10. (Canceled)

11. (Currently Amended) An industrial controller for at least one of a machine tool, a robot and a production machine, comprising:

a converter which ~~associates~~ links predefined operating states of the at least one of the machine tool, the robot and the production machine, on an individual operating-state basis to respective at least one of messages and alarms;

a table which ~~associates~~ links each of the predefined operating states with:

- i) a respective distribution group to whom an SMS message is to be sent, and
- ii) information to be included in the SMS message; and

a transmitter configured to send the at least one of message and alarm ~~associated~~ linked with one of the predefined operating states after the one of the predefined operating states is detected, the at least one of message and alarm being sent via the SMS message to the respective distribution group ~~associated~~ linked with the detected predefined operating state, the respective at least one of message and alarm including the particular information identified by the information ~~associated~~ linked with the detected predefined operating state,

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wherein the table associates links at least two of the predefined operating states with a different respective distribution group.

12. (Canceled)

13. (Currently Amended) An industrial controller for at least one of a machine tool, a robot and a production machine, comprising:

a converter which associates links predefined operating states of the at least one of the machine tool, robot the production machine, on an individual operating-state basis to respective at least one of messages and alarms;

a table which associates links each of the predefined operating states with a respective distribution group to whom a notification is to be sent, the notification including at least one of an SMS message and an e-mail; and

a transmitter configured to send the at least one of message and alarm associated linked with one of the predefined operating states after the one of the predefined operating states is detected, the at least one of message and alarm being sent via the notification to respective distribution group associated linked with the detected predefined operating state,

wherein the table associates links at least two of the predefined operating states with a different respective distribution group.

14. (Canceled)

15. (Currently Amended) An industrial controller for at least one of a machine tool, a robot and a production machine, comprising:

a converter which associates links predefined operating states of the at least one of the machine tool, the robot and the production machine, on an individual operating-state basis to respective at least one of messages and alarms;

a table which associates links each of the predefined operating states with a respective distribution group to whom an SMS message is to be sent; and

a transmitter configured to send the at least one of message and alarm associated linked

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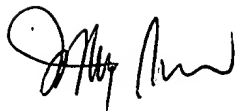
with one of the predefined operating states after the one of the predefined operating states is detected, the at least one of message and alarm being sent via the SMS message to the respective distribution group associated linked with the detected predefined operating state,

wherein the table associates links at least two of the predefined operating states with a different respective distribution group.

16. (Canceled)

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey C. Pwu whose telephone number is 571-272-6798. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on 571-272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



12/5/06

JEFFREY PWU
PRIMARY EXAMINER